

19980818.qrp v01\_n187.qrs.980818

Date: Tue, 18 Aug 1998 19:03:09 EDT  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 1187

QRP-L Digest 1187

Topics covered in this issue include:

- 1) [17762] Object Bounce CW  
by KC5TJA <kc5tja@topaz.axisinternet.com>
- 2) [17763] 1 dB loss/gain expressed as a percentage  
by "Bob Helms" <af5z@inetport.com>
- 3) [17764] Anyone experienced with Lithium Metal (not LiIon) cells?  
by David Feldman <dgif@netcom.com>
- 4) [17765] NiMH charging  
by jmbrown@edge.net (JERRY BROWN)
- 5) [17766] Need data sheets for MRF479 and MRF406  
by Lee Jarvis <l2jarvis@mindspring.com>
- 6) [17767] QRP SSB  
by ARDUJENSKI@aol.com
- 7) [17768] Re: QRP SSB  
by RangerSF5@aol.com
- 8) [17769] Re: Z-match  
by Steve <smann@advi.net>
- 9) [17770] Battery Articles  
by ARDUJENSKI@aol.com
- 10) [17771] FS: OHR-100A 40M  
by "Robert H. Sorge" <rsorge@phoenix.net>
- 11) [17772] Re: QRP SSB  
by "John J. McDonough" <jjmcd@tm.net>
- 12) [17773] MI QRP Club Labor Day Sprint Dates  
by Hank Kohl K8DD <k8dd@contesting.com>
- 13) [17774] WB2VUO is Back, NQ2RP is not...  
by "W. Keith Hibbert" <wb2vuo@frontiernet.net>
- 14) [17775] Any Canadian VLF?  
by Paul Erickson <paule@sfu.ca>
- 15) [17776] CQC Gold Rush  
by "J. Medley" <jmedley@ix.netcom.com>
- 16) [17777] Comments on L/C Meter II  
by PGSPersEng@aol.com
- 17) [17778] Comparative between HOWES and...  
by "Juan A. Bertolin" <ea5xq@qsl.net>
- 18) [17779] FS: Heil HM-10 headset  
by Paul Erickson <paule@sfu.ca>
- 19) [17780] Thanks for the Great Idea Bob

- by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 20) [17781] QRP gear for sale  
by jalbertin@juno.com (Jerry Albertin)
- 21) [17782] Re: Coil lube  
by Leon Heller <leon@lfheller.demon.co.uk>
- 22) [17783] New QRP band in UK  
by Leon Heller <leon@lfheller.demon.co.uk>
- 23) [17784] Re: 1 dB loss/gain expressed as a percentage  
by "Walter Dufrain" <walter@inlink.com>
- 24) [17785] Re: Z-match  
by nilsbull@juno.com (Nils R Young)
- 25) [17786] Arkansas QRP Club  
by wa8jpr@juno.com
- 26) [17787] ten tec rx  
by "Jerry W. O'Dell" <jwodel@ameritech.net>
- 27) [17788] Re: Any Canadian VLF?  
by "Vincent Ferme" <vferme@sprint.ca>
- 28) [17789] Crystal, Pixie-2, and G5RV Questions.  
by "James Fielden" <fielden@utkux.utcc.utk.edu>
- 29) [17790] Looking for W6EMT  
by Al Moyle <n3kfl@penn.com>
- 30) [17791] Cut Numbers  
by "Bryan Turner" <turnerw@email.uah.edu>
- 31) [17792] Update W/R This a'way/That a'way ant  
by jdenison@morelr.com (JOEL DENISON)
- 32) [17793] Link Coupled Tuners  
by mikemo@ibm.net
- 33) [17794] cut numbers  
by af852@rgfn.epcc.edu (William R Colbert)
- 34) [17795] New ADI DDS chip  
by Leon Heller <leon@lfheller.demon.co.uk>
- 35) [17796] Re: New QRP band in UK  
by Leon Heller <leon@lfheller.demon.co.uk>
- 36) [17797] Re: Cut Numbers  
by Roger Hightower <n7kt@earthlink.net>
- 37) [17798] Ho-Humm, more DX  
by Steven Weber <kd1jv@moose.ncia.net>
- 38) [17799] Re: Ho-Humm, more DX  
by "Harvey D. D. Hetland" <n6mm@earthlink.net>
- 39) [17800] Pixie 2 circuit description  
by Vince Kumagai <sonofullr@idcomm.com>
- 40) [17801] Re: ten tec rx  
by Tim Ahrens <tahrens@inetport.com>
- 41) [17802] Z match tuner  
by "KA5T Larry Wise" <lewise@inetport.com>
- 42) [17803] PIXIE MODs?  
by Sam Billingsley <SBillingsley@usaninc.com>
- 43) [17804] Help - Contest software

by Serge Bertuzzo <103226.3635@compuserve.com>  
44) [17805] Re: Object Bounce CW  
by "DJ Rock" <b2bn@hotmail.com>  
45) [17806] Re: New ADI DDS chip  
by Steven Weber <kd1jv@moose.ncia.net>  
46) [17807] Re: Help - Contest software  
by Bob Patten <n4bp@bc.seflin.org>  
47) [17808] Re: Link Coupled Tuners  
by Leon Heller <leon@lfheller.demon.co.uk>  
48) [17809] Re: Looking for W6EMT  
by W7LS <w7ls@blarg.net>  
49) [17810] Re: Link Coupled Tuners  
by KC5TJA <kc5tja@topaz.axisinternet.com>  
50) [17811] alternate crystals for SST/40  
by Allan Taylor K7GT <k7gt@qsl.net>  
51) [17812] SuperSensitive headphones for backpacking portable  
by Allan Taylor K7GT <k7gt@qsl.net>  
52) [17813] Re: Looking for W6EMT  
by Tim Pettibone <tpettibo@NMSU.Edu>  
53) [17814] The PERFECT GROUND?  
by ARDUJENSKI@aol.com  
54) [17815] Re: Looking for W6EMT  
by Al Moyle <n3kfl@penn.com>  
55) [17816] Re: 1 dB loss/gain expressed as a percentage  
by "Bob Kellogg" <ae4ic@nr.infi.net>  
56) [17817] Re: SuperSensitive headphones for backpacking portable  
by W7LS <w7ls@blarg.net>  
57) [17818] Re: New ADI DDS chip  
by Tim Ahrens <tahrens@inetport.com>  
58) [17819] NF3I....where are you Scott?  
by tom whalen <whalen@swcp.com>  
59) [17820] LQQKing for ED Crowell  
by RangerSF5@aol.com  
60) [17821] AW: alternate crystals for SST/40  
by "Peter\_dl2fi" <Peter\_DL2FI@CSI.com>  
61) [17822] Tuthill  
by Art Marshall <artm@t-com.com>  
62) [17823] ICQ-QRP  
by tom whalen <whalen@swcp.com>  
63) [17824] Re: Link Coupled Tuners  
by "George T. Baker" <w5yr@swbell.net>  
64) [17825] Very low supply voltage PA circuits  
by David Feldman <dgf@netcom.com>  
65) [17826] Re: Very low supply voltage PA circuits  
by KC5TJA <kc5tja@topaz.axisinternet.com>  
66) [17827] Looking for W6EMT  
by Joseph Trombino jr <joebarb@wilmington.net>  
67) [17828] NEAT SLV BASE SUPPORT

- by ARDUJENSKI@aol.com
- 68) [17829] Re: NEAT SLV BASE SUPPORT  
by Kory Hamzeh <kory@avatar.com>
  - 69) [17830] Re: Pacificon vs FDIQ QRP Symposium  
by Dick Schneider <rschneid@ix.netcom.com>
  - 70) [17831] SuperSensitive headphones for backpacking  
by Allan Taylor K7GT <k7gt@qsl.net>
  - 71) [17832] SST/40 bandwidth issues  
by Allan Taylor K7GT <k7gt@qsl.net>
  - 72) [17833] Re: PIXIE MODs?  
by we6w@juno.com (Ed Loranger)
  - 73) [17834] FS: Ten-Tec 2m to 6m Transverter  
by n7ri@juno.com (Ralph L Irons)

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Date: Mon, 17 Aug 1998 16:14:59 -0700 (PDT)  
 From: KC5TJA <kc5tja@topaz.axisinternet.com>  
 To: qrp-l@Lehigh.EDU  
 Subject: [17762] Object Bounce CW  
 Message-ID: <Pine.LNX.3.96.980817160845.12028A-1000000@topaz.axisinternet.com>  
 MIME-Version: 1.0  
 Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm just curious to see if anyone has performed 6m or 2m "object bounce" CW at QRP power levels or not. Object bounce is the term I coined to describe the reflection and/or scattering of RF energy against something like a mountain range or city building to enhance VHF range.

The idea came to me as a generalization of the moon-bounce method. One of the things I wanted to try, for a long time, was moon bounce. Then I got to thinking of how I could employ an STL with a parabolic reflector surface behind it. Overall, the whole antenna would be smaller than an equivalent beam array, with or without full parabolic reflector.

I'd still need QRO powers to transmit, though I have heard of some moon-bounce contacts being successful at as low as 100 to 200W.

As you can see, my mind is wandering again...that'll be all for this week... ;)

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=====
KC5TJA/6      |                               -| TEAM DOLPHIN |-
DM13          |                               Samuel A. Falvo II
QRP-L #1447   |                               http://www.dolphin.openprojects.net
Oceanside, CA |.....
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Date: Sun, 16 Aug 1998 22:03:13 -0500  
From: "Bob Helms" <af5z@inetport.com>  
To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>  
Subject: [17763] 1 dB loss/gain expressed as a percentage  
Message-ID: <199808172344.SAA00339@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

I've seen several posts concerning how much power is lost in a tuner with 1 dB loss. I think the confusion and misunderstanding is more of a viewpoint difference than anyone being wrong. Let me see if I can explain this without offending anyone or getting too wordy.

If a transmitter produces 1 watt output into a 50 ohm resistive load the RF voltage will be 7.071 VRMS. If this output is fed through a tuner, feedline or other device which has ONE DECIBEL loss then the power available to the load will be .794 watt (794 mw) or 6.3 VRMS. Again this assumes the transmitter output impedance, 'lossy device', feedlines, connectors and power measuring devices all are designed with a 50 ohm impedance and minimal reactance at the frequency of operation. Comparing the ONE WATT original to the .794 watt result leads some to state that a "1 dB loss is a 20 percent power loss". Comparing the 7.071 VRMS original to the resultant 6.3 VRMS would lead you to state that a "1 dB loss is a 11 percent voltage loss".

The percentage figures change if you are talking about gain, amplification or "a reduction in insertion loss" due to other improvement. As an example, suppose you REMOVE that "lossy 1 dB device" from the circuit thereby INCREASING the signal level by 1 dB from .794 watt to 1 watt. This represents an increase of 25.9 percent in power or 12.2 percent in voltage.

Some formulas may help the non-believers with good calculators.

$\text{dB (change)} = 10 \log (\text{power1}/\text{power2})$

$\text{dB (change)} = 20 \log (\text{voltage1}/\text{voltage2})$

These formulas are for situations where the power or voltage is measured across equal impedances before and after the loss or gain elements.

- - Practical Comparisons - -

1. Look at your receiver S meter and recall that most are calibrated with either 5 or 6 dB per S unit. If my signal changes by 1 dB would it even

change the reading by a needle width? Hmm, didn't think so.

2. If you are truly concerned about a antenna tuner that has 1 dB loss, consider the following:

A. A hundred feet of new, name brand RG-58U quarter inch coax has ONE dB LOSS on forty meters IF the VSWR is perfect 1 to 1. Loss increases with any mismatch/higher VSWR.

B. A hundred feet of new, name brand RG-8/U or mil-spec RG-213/U half-inch coax has ONE dB LOSS on 15 meters if the VSWR is perfect 1 to 1.

3. When viewed as a system, particularly with longer feedlines, a tuner and balanced line may introduce less loss than a coax line without the tuner. Even cheap TV type twinlead has far less loss than the best of coax.

A. A well matched 10 meter dipole fed with 200 ft of RG-213/U half-inch coaxial cable will get 2.75 watts of my 5 watt QRP transmitter output.

B. The same 50 ohm 10 meter dipole fed with 200 ft of 1/2" or 1" open wire type 300 ohm 'window line' and a tuner with a 1 dB loss will get about 3.5 watts of my 5 watt QRP transmitter output even considering the feedline will be operating with a 6 to 1 VSWR. In this case, the matched loss of the feedline is so low, that the added loss due to mismatch is minimal.

I've found center-fed wires and large loops, balanced feedlines and antenna tuners produce strong signals on several bands without the critical antenna tuning/pruning process required to achieve an acceptable match with coaxial cable.

Bob Helms, AF5Z      Georgetown, TX      FISTS 2035

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Date: Mon, 17 Aug 1998 16:56:19 -0700 (PDT)  
From: David Feldman <dgf@netcom.com>  
To: qrp-l@Lehigh.edu  
Subject: [17764] Anyone experienced with Lithium Metal (not LiIon) cells?  
Message-ID: <199808172356.QAA01249@netcom17.netcom.com>

If you've encountered these things, please drop me an e-mail to share your experience!

73 Dave WB0GAZ dgf@netcom.com

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Date: Mon, 17 Aug 1998 19:07:55 -0500

From: jmbrown@edge.net (JERRY BROWN)  
To: qrp-1@Lehigh.EDU  
Subject: [17765] NiMH charging  
Message-ID: <35D8C5DB.3C08@edge.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Need to know approximate charging time for my new NiMH battery...1850mAh  
and charger is 70 ma wall wart...don't remember the comparison made to  
NiCad charging times based on efficiency, but I'm sure it has been made.

72  
Jerry, N4EO

-----  
Date: Mon, 17 Aug 1998 20:08:11 -0400  
From: Lee Jarvis <l2jarvis@mindspring.com>  
To: qrp-1@Lehigh.EDU  
Subject: [17766] Need data sheets for MRF479 and MRF406  
Message-ID: <3.0.1.32.19980817200811.006edc2c@mindspring.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Does anyone have data sheets for either of these devices? I'll gladly pay  
copying and mailing cost.

Thanks!  
Lee  
KN4VN

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Date: Mon, 17 Aug 1998 20:17:28 EDT  
From: ARDUJENSKI@aol.com  
To: qrp-1@Lehigh.EDU  
Subject: [17767] QRP SSB  
Message-ID: <964d7b92.35d8c819@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

I was never sure about the merits of SSB QRP until today when I was fortunate  
to chat with G4KQU on 15M first on 10 watts (579) and when he was still there

a half hour later as the band was starting to die, I boldly tried him with between 1 -2 watts. Yes, Virginia there is a Santa Clause...he did return with a 519 and closed with a 579. Just a 40M DOUBLE ZEPP up 20 meters for antlers. We all have some fond moments in life and this was one for me. Thanks for all your inspiration folks. I might never otherwise have made GENERAL nor had unique moments like this...Alan KB7MBI

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Date: Mon, 17 Aug 1998 20:41:38 EDT  
From: RangerSF5@aol.com  
To: ARDUJENSKI@aol.com, qrp-1@Lehigh.EDU  
Subject: [17768] Re: QRP SSB  
Message-ID: <23a55abf.35d8cdc4@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Tell us what rig you used  
Bob  
WA2hoq

-----  
Date: Mon, 17 Aug 1998 20:24:53 -0400  
From: Steve <smann@advi.net>  
To: nilsbull@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [17769] Re: Z-match  
Message-ID: <35D8C9D5.582B@advi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

OK guys and gals, you've really got my curiosity goin' !

What is the circuit layout of the Z-match? I'm familiar with the "pi", the "tee" and the "L", and I've always thought of them as impedance (Z) matching networks. So what's this new fangled thang callin' itself a "Z-match"?

Steve, N4EY  
Toast, NC  
ARCI# 3594



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Date: Mon, 17 Aug 1998 20:45:14 EDT  
From: ARDUJENSKI@aol.com  
To: qrp-1@Lehigh.edu  
Subject: [17770] Battery Articles  
Message-ID: <4c77e740.35d8ce9b@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

For some interesting reading check out this site:  
<http://people.ne.mediaone.net/fstewart/battery-1.html>

Alan KB7MBI

-----  
Date: Mon, 17 Aug 98 19:52:22 PDT  
From: "Robert H. Sorge" <rsorge@phoenix.net>  
To: qrp-1@Lehigh.EDU  
Subject: [17771] FS: OHR-100A 40M  
Message-ID: <Chameleon.980817200013.rsorge@phoenix.net.phoenix.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have for sale a OHR-100A. I built this rig. It is in perfect condition.  
Nothing ever  
smoked. I want to sell it to make room for the OHR-500. The rig tunes 7.000mhz  
to 7.075mhz.  
It is set for 5 watts output. The adjustable bandwidth works very good. I am  
asking \$115 and  
I ship CONUS.  
72 de Bob  
281-476-9909

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Name: Robert H. Sorge - KC5FMZ QRP-L#910,NORCAL#793,ARCI#96033  
E-mail: rsorge@phoenix.net  
Date: 8/17/98  
Time: 7:52:22 PM  
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Date: Mon, 17 Aug 1998 22:03:59 -0400  
From: "John J. McDonough" <jjmcd@tm.net>  
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.edu>  
Subject: [17772] Re: QRP SSB  
Message-ID: <199808180129.3921400@is1.tm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

> From: ARDUJENSKI@aol.com; owner-qrp-1@Lehigh.EDU  
>  
> I was never sure about the merits of SSB QRP until today when I was  
fortunate  
> to chat with G4KQU on 15M first on 10 watts (579) and when he was still  
there

Good day, today.

I chatted with PA3EPG (well, traded reports is all) on 20 SSB, 10W, mobile  
(Hamstick). Couldn't believe it when he came back to me! Sure makes a  
long dreary drive a lot shorter!

72/73 de WB8RCR  
didileydadidah

-----  
Date: Tue, 18 Aug 1998 02:21:18 +0100  
From: Hank Kohl K8DD <k8dd@contesting.com>  
To: qrp-1@Lehigh.EDU  
Subject: [17773] MI QRP Club Labor Day Sprint Dates  
Message-ID: <3.0.5.32.19980818022118.0094c200@192.0.0.1>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

QST came today.  
The Labor Day Sprint is on Labor Day (Sept 7) not Sept 1!!  
The MI QRP Club dates are wrong on page 103 of the September QST.  
The dates are correct on page 26.  
The dates are also correct on <http://www.tir.com/~k8dd/rules97.htm>

MICHIGAN QRP CLUB

Labor Day CW Sprint: 2300Z 09/07/98 to 0300Z 09/08/98.

All MI-QRP Club contests/sprints are run under the rules below.  
All contests/sprints will be run on 160 thru 6 Meters (no WARC bands).  
All amateurs are invited to participate.

CLASSES:

A - 250 milliwatts or less output.  
B - One watt to 250 milliwatts output.  
C - Five watts to one watt output.  
D - Over five watts output. EXCHANGE: RST, QTH (State/Province/Country)  
and MI-QRP Membership Number (non-members send power-output).  
SCORING: Stations may be worked once per band for QSO points. All  
member contacts are 5 points.  
Non member contacts in W & VE are 2 points.  
Non member contacts outside W & VE are 4 points.  
Multiply total QSO Points, on all bands, by the total number of  
States/Provinces/Countries worked on all bands for total points. U.S. &  
Canada do not count as countries.

BONUS POINTS: Total points may be multiplied by 1.25 for home brew RX  
or TX w/commercial RX or TX combinations.  
Multiply by 1.5 for a total homebrew station. Home brew = any kit or  
home made gear, it is not necessary for you to have built it yourself.  
Those using homebrew gear on some, but not all bands, may claim credit  
by listing the proper bonus points in each band's "BPTs" column on the  
score sheet, adding them up and dividing by the number of bands used.  
Enter the average (round to 2 decimal places) in the "Totals" row,  
under the "BPTs" column. I'll do this for you if you give me adequate  
rig info on each band.

AWARDS: Certificates awarded by class for high score in each  
State/Province/Country.  
A legible, chronological log is required within 30 days after the  
contest. Please include your name, call, address, equipment description  
and Power output . Results will be printed in the next issue of The  
Five Watter. Final decision on any contest matters rest with the  
contest manager.

All logs to:  
L. T. SWITZER N8CQA  
654 GEORGIA AVENUE  
MARYSVILLE MI 48040-1243  
E-Mail Logs to: n8cqa@tir.com

Log and entry sheets available for an SASE to the above.

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Date: Mon, 17 Aug 1998 23:37:04  
From: "W. Keith Hibbert" <wb2vuo@frontiernet.net>  
To: qrp-1@Lehigh.edu  
Subject: [17774] WB2VU0 is Back, NQ2RP is not...  
Message-ID: <3.0.5.16.19980817233704.2e472b92@pop3.frontiernet.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

After what must have been a \$20 phone call to Juno, it looks like the B/BAMS Email account over at Juno is history.

I had to return the computer I was using at the club to the shop. The Boss blew up his Pentium running it in an excessively dusty environment, and I was off the Email for 3 weeks. At the club, we were subscribed to 5 different lists, and the volume of mail was high enough that I exceeded the unstated maximum volume on a Juno account, and they cancelled nq2rp@juno.com

Juno refuses to reinstate the account. I tried to re-register it with a new phone number, club name listing, etc, and it wouldn't go thru, so all the mail for me and for the Byron/Bergen AmateurS should now come to me at wb2vuo@frontiernet.net

I was also told that the next series of Juno upgrades, which they install remotely for you, wanted or not, will only work on WIN95/WIN98, no more WIN3.1 Juno when the new versions go out. That would have knocked me off anyway as I don't have WIN95.

Sorry for any troubles this has caused with bounced mail. The beacon text will have the Email address change in place this weekend.

72/73, Keith, WB2VU0  
Trustee, NQ2RP/B 10 Meter Milliwatting Beacon  
125 mW @ 28.2876 MHz  
"My night light runs more power than my Rig!!!"

-----  
Date: Mon, 17 Aug 1998 21:56:35 -0700 (PDT)  
From: Paul Erickson <paule@sfu.ca>  
To: qrp-canada@lists.gpfn.sk.ca (qrp-canada)  
Cc: qrp-1@Lehigh.EDU (qrp)  
Subject: [17775] Any Canadian VLF?

Message-ID: <199808180456.VAA29885@fraser.sfu.ca>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

Hi There,

A friend has just asked about the canadian regulations re: 1750 meters?  
I understand that it is popular in some segments of the U.S. and  
British ham population. Anyone know if there is much canadian  
activity? Is it legal in Canada?

cheers, Paul

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Date: Tue, 18 Aug 1998 00:12:04 -0500 (CDT)  
From: "J. Medley" <jmedley@ix.netcom.com>  
To: qrp-l@Lehigh.edu  
Subject: [17776] CQC Gold Rush  
Message-ID: <3.0.16.19980818051709.3d2f3a1e@popd.ix.netcom.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Just a reminder folks, the deadline for logs is fast approaching (8/19).  
Get those logs in!

72,  
Jan N0QT

-----  
Date: Tue, 18 Aug 1998 01:14:03 EDT  
From: PGSPersEng@aol.com  
To: qrp-l@Lehigh.EDU  
Subject: [17777] Comments on L/C Meter II  
Message-ID: <995c014f.35d90d9c@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

I'm thinking of getting an LC meter.

Could those people who have the L/C Meter II from AADE tell me how satisfied  
they are with the instrument? What do they like best and worst? Are the ranges

sufficient? How does this instrument stack up to, say, the Wavetek 27XT?

Thanks,  
Paul, AA1MI

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Date: Tue, 18 Aug 1998 08:16:32 +0200  
From: "Juan A. Bertolin" <ea5xq@qsl.net>  
To: "QRP - LIST ADDRESS" <qrp-l@Lehigh.EDU>  
Subject: [17778] Comparative between HOWES and...  
Message-ID: <199808180623.IAA09134@smtp.bankinter.es>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Dear qrp-colleagues,

I have a HOWES RIG (DXR20 and TX2000) for 20,30,40 and 80 meters and I would like to know the differences between this kit and the kits that usually you comment in the list (Elmer, OAK, ...).

Anyone has had any time the chance of working with HOWES kit and other kits to compare it?

Any information will be appreciated.

Best Regards

Juan

=====  
=====  
EA5XQ, QRA:Juan, QTH:Almazora, LOC:IM99XW  
FT901DM, MFJ1796,V inv. 40,80m.  
HOWES (80m,40m,30m,20m) TX2000-DXR20 5w  
G-QRP #9805 QRP-L #1461

-----  
Web Site: <http://www.qsl.net/ea5xq>  
-----

When I picture a perfect reader, I always picture a monster of courage and curiosity, also something supple, cunning, cautious, a born adventurer and discoverer...

-- Friedreich Nietzsche--  
=====

-----  
Date: Mon, 17 Aug 1998 23:53:14 -0700 (PDT)  
From: Paul Erickson <paule@sfu.ca>  
To: qrp-1@Lehigh.EDU (qrp), qrp-canada@lists.gpfn.sk.ca (qrp-canada)  
Subject: [17779] FS: Heil HM-10 headset  
Message-ID: <199808180653.XAA12921@fraser.sfu.ca>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

For sale: Heil HM-10 headset, excellent condition. \$60 obo

cheers, Paul - VE7CQK - email: paule@sfu.ca

-----  
Date: Tue, 18 Aug 1998 00:03:31 -0700  
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.edu>  
Subject: [17780] Thanks for the Great Idea Bob  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

A couple of days ago, Bob Gobrick of ARCI made a great suggestion for Pacificon.

"So I guess my comment to Doug is "How about printing a free Proceeding of the Pacificon talks for all attendees and also throw in a "QRP goodie" like the circuit board, for free, if you want to really want to make a "statement".

Thanks Bob, again you have shown great leadership and it is a marvelous idea, in fact, I wish that I had thought of it myself. I have contacted several of the speakers, and will be contacting the others about the possibility of printing the Pacificon NorCal QRP Proceedings. It looks like a go. And, I have also contacted George Dobbs about giving away the very same set of boards that was included in the FDI packet. George thinks it is a wonderful idea, and with his cooperation and Dick Pascoe's, it will happen also. Yes we will do it for free, as you suggested. Thank you for sharing this idea, and showing the true spirit of QRP cooperation between clubs. Because of your leadership

and sharing of a great idea, attendees at Pacificon will receive a copy of the proceedings and a 6 free circuit boards courtesy of NorCal. I look forward to seeing ARCI do the same next year at Dayton.

72, Doug, KI6DS

-----  
Date: Tue, 18 Aug 1998 06:30:06 EDT  
From: jalbertin@juno.com (Jerry Albertin)  
To: qrp-1@Lehigh.EDU  
Cc: jalbertin@juno.com  
Subject: [17781] QRP gear for sale  
Message-ID: <19980818.063210.5495.0.JAlbertin@juno.com>

I have the following qrp related gear for sale:

MFJ 9040 transceiver. Very good condition with Manual \$105

MFJ 9020 transceiver. good condition (face plate worn)  
with manual \$90

MFJ 971 antenna tuner- 6watt/300watt like new condition  
with manual \$65

Trac deluxe cmos keyer- no manual but has a very wide  
range of speed and weight, adjustable side tone volume  
and tone. Very good  
condition \$35

Bencher straight key- black base, chrome hardware  
with black finger pad excellent condition  
\$65

All of the above gear is currently working in my shack, however recent economic conditions dictates a shack cleaning.  
All prices include shipping.

73....Jerry kg2jff

-----



Date: Tue, 18 Aug 1998 09:04:14 +0100  
From: Leon Heller <leon@lfheller.demon.co.uk>  
To: wb0poq@visi.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [17782] Re: Coil lube  
Message-ID: <GGIFXDA+VT21EwMR@lfheller.demon.co.uk>  
MIME-Version: 1.0

In message <35D8A4A0.795A9BB1@visi.com>, Bob Liesenfeld  
<wb0poq@visi.com> writes

>Hi gang,  
> I have an older receiver here that I am going to align. In the past I have had  
>lots of trouble with those small (approx 1/8") diameter powered iron slugs with  
>a hexagonal hole for a tuning tool. I have a tool that fits, but often find  
>that the cores are 'frozen' in place, and enough torque to break them loose does  
>just that....it breaks them.  
>  
> Any ideas on a good lube that I might squirt down in the form to loosen them  
>up? Some of these miserable things are in what appear to be waxed paper forms,  
>so whatever is used has got to be friendly to same.

Try warming the core with a soldering iron.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>  
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424  
See <http://www.lfheller.demon.co.uk/dds.htm> for details of a simple AD9850  
DDS system. See " /diy\_dsp.htm for a simple DIY DSP ADSP-2104 system.

-----  
Date: Tue, 18 Aug 1998 12:14:31 +0100  
From: Leon Heller <leon@lfheller.demon.co.uk>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [17783] New QRP band in UK  
Message-ID: <TTSQyhAXIW21Ew\$H@lfheller.demon.co.uk>  
MIME-Version: 1.0

I've just renewed my licence, and I see that we have a new band in the  
UK - 0.1357 to 0.1378 MHz with a max. power level of 0 dbW exp. A whole  
band devoted to QRP. 8-)

I can apparently transmit on this band with my Class B licence, unlike  
the other HF bands. I knew that a new 135 kHz band was coming, but I  
thought that I wouldn't be able to use it with my licence, like the  
experimental 73 kHz allocation that was recently removed.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>  
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424  
See <http://www.lfheller.demon.co.uk/dds.htm> for details of a simple AD9850  
DDS system. See " /diy\_dsp.htm for a simple DIY DSP ADSP-2104 system.

-----  
Date: Tue, 18 Aug 1998 06:42:51 -0500  
From: "Walter Dufrain" <walter@inlink.com>  
To: <af5z@inetport.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.edu>  
Subject: [17784] Re: 1 dB loss/gain expressed as a percentage  
Message-ID: <199808181145.GAA05420@thor.inlink.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Nice posting, Bob, and some folks are forgetting all the coax connectors, patch cords, coax switches and lossy swr meters.

An old timer (20+ yrs ago) told me to count each coax connector as 1 db of loss as well as each switch that is in the antenna circuit. This may be fact or fable, however, over the years I have avoided any extra connectors in the antenna circuit and it has worked out very well.

72/73      Walter Dufrain, AG5P      Wright City, Missouri

>  
> I've found center-fed wires and large loops, balanced feedlines and antenna  
> tuners produce strong signals on several bands without the critical antenna  
> tuning/pruning process required to achieve an acceptable match with coaxial  
> cable.  
>  
> Bob Helms, AF5Z Georgetown, TX      FISTS 2035  
>

-----  
Date: Tue, 18 Aug 1998 06:58:16 -0500  
From: nilsbull@juno.com (Nils R Young)

To: smann@advi.net, qrp-1@Lehigh.EDU  
Subject: [17785] Re: Z-match  
Message-ID: <19980818.065825.9182.0.nilsbull@juno.com>

Steve,

Lemme tell you a story: The first time I ever saw what is being called the "Z-match," it was a u-shaped folded sheet metal frame with the Ten Tec logo on the front and a couple doodads on the back. One of the back doodads was an RCA connector which had one side grounded and the other side (center) going to one of the 2 stators of a split stator 350 pf variable. The frame of the variable cap was isolated from ground and hooked to a piece of wire with a alligator clip on the end. The one remaining stator of the cap had a wire with a alligator clip on it.

The second thing on the back of the box was two screw terminals, each isolated from the frame, with a wire on each ending in an alligator clip.

The alligator clips were supposed to clip onto every other turn of what was, for all intents & purposes, a piece of AirDux inductor wound on a piece of round plastic which was isolated from the chassis of the tuner. I don't remember how many turns the inductor had, but it was enough for there to be one point, dead center in the coil, which went to the ground side of the aforementioned RCA connector.

The trick was to clip the wires from the cap to various taps on the coil and then connect the two wires to the screw terminals to another set of taps, usually inside the two taps used for the cap, and then, by turning the knob on the cap, one could tune any antenna. Well, almost any antenna.

See, there was one other screw terminal on the back that had a little clip doodad on it which, if you were using a long wire or some other kind of antenna that used a counterpoise (as opposed to a balanced feed line), you'd short out the one side of the tapped clips on the coil and thus unbalance what was, for all intents, an autotransformer kinda deal.

What's weird is that many years later -- like this week -- I find myself using a home-brew version of the same deal, but with fixed output taps and a rotary switch (six positions, two poles) to do the clipping & tapping. Only this time the damn thing tunes up every piece of crap antenna that I put on it, with the exception of a chunk of wired stapled to the garage rafters.

And weirder still is that this is basically the same circuit that was used by Elmer Osterhoudt in his MRL #2 DX Crystal set, which I have sitting here above me, next to a Hugo Gernsbach vintage one-tuber. Which

also has a similar tuning circuit.

Now, if after that you are lost (I would be), check out the article by Pete Hoover in the recent QRP ARCI Quarterly about the circuit that I just tried to describe.

Sometimes the older stuff is really worth it.

73

Nils

-----  
-----  
Nils R. Bull Young

La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch

WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com

<http://www.geocities.com/Athens/Olympus/9172>

-----  
You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com>

Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Tue, 18 Aug 1998 08:21:02 -0400

From: wa8jpr@juno.com

To: qrp-l@Lehigh.edu

Subject: [17786] Arkansas QRP Club

Message-ID: <19980818.082103.-921461.0.WA8JPR@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Can anyone out there give me the web address for the Arkansas QRP Club.

Have membership # 102, however I have lost the address. Help will be appreciated

Txn 73

WA8JPR Bill

-----  
You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com>

Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Tue, 18 Aug 1998 08:41:00 -0400

From: "Jerry W. O'Dell" <jwodell@ameritech.net>  
To: qrp-1@Lehigh.edu  
Subject: [17787] ten tec rx  
Message-ID: <19980818133759.DDWS13529@[199.179.189.5]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Just got an ad for the new ten-tec computer controlled receiver. 100khz to 30 mhz.

Anyone have any thoughts on the thing? Unless you had a laptop, you couldn't use it for qrp. But its specs ain't bad, and it is in a box separate from the computer.

My computer puts out more rf than my ham station, so this is a welcome way to do it. I think Icom has the thing inside the computer.

If you didn't get the mailing, it's \$299, \$279 for ten-tec recent customers.

73 jerry w8gnd

-----  
Date: Tue, 18 Aug 1998 08:54:19 -0400  
From: "Vincent Ferme" <vferme@sprint.ca>  
To: <paule@sfu.ca>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Cc: <qrp-canada@lists.gpfn.sk.ca>  
Subject: [17788] Re: Any Canadian VLF?  
Message-ID: <001701bdcaa7\$51f71b60\$d91005d1@frsswilap04284.callnetcanada.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Paul,

It was legal, although not allocated to ham radio use, the last I checked. We were actually in a better position until the regulation was harmonized with the US. There was no antenna length/size limitation, now is the same 15 m/50 ft. Same power, 1 W.

73 de Vince, VE3VFN.

-----Original Message-----

From: Paul Erickson <paule@sfu.ca>

>A friend has just asked about the canadian regulations re: 1750 meters?

>I understand that it is popular in some segments of the U.S. and

>British ham population. Anyone know if there is much canadian

>activity? Is it legal in Canada?

-----  
Date: Tue, 18 Aug 1998 08:56:36 -0400

From: "James Fielden" <fielden@utkux.utcc.utk.edu>

To: "QRP-L" <qrp-l@Lehigh.edu>

Subject: [17789] Crystal, Pixie-2, and G5RV Questions.

Message-ID: <01bdcaa7\$a2788b00\$1e12a980@galaxian>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hello All,

I have 3 questions that I shall ask today.

1. Anyone have a good source for 14.060 and 10,106 crystals? I can get 7040, 7122, and 10,116 from Doug at Norcal at a great price and would like to find the other two at a good price with out having to special order them from a crystal house.

2. I seen a message sometime back about someone that put their Pixie-2 on 20 Meter, I was just wondering what was required to do that, and what value / which parts needed changed? Also the 2n2222 that is used for the output, is there another Transister that I could just put in it's place with out other changes to get more power out, would like to get 1 watt output?

3. I just put a Mini-G5RV in my attic, the SWR is great on 40,20,15,10, and 6 meter, only problem it's all way up in the Phone band where I get the best swr. I was thinking of a full size G5RV 102' but was wondering should I just make everything a bit longer to get better low end of the band swr or will that knock the whole 102 Wire, ??' Open wire, ?? Coax thingie out of wack?

73                   \*           Jim, KU4QW

fielden@utkux.utcc.utk.edu

<http://web.utk.edu/~fielden/>

-----  
Date: Tue, 18 Aug 1998 09:00:09 -0400  
From: Al Moyle <n3kfl@penn.com>  
To: qrp-l@Lehigh.EDU  
Subject: [17790] Looking for W6EMT  
Message-ID: <3.0.32.19980818090007.00981e30@pop.penn.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Does anyone know if Roy Gregson, W6EMT, of EMTECH is on vacation? I've been trying to reach him by email and haven't been able to get through.

72,  
Al N3KFL

-----  
Date: Tue, 18 Aug 1998 08:33:34 +0000  
From: "Bryan Turner" <turnerw@email.uah.edu>  
To: qrp-l@Lehigh.edu  
Subject: [17791] Cut Numbers  
Message-ID: <199808181334.IAA10279@uahis1.uah.edu>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Cut numbers were used when large volumes of numeric data needed to be sent to cut the amount of time needed for transmission. For example, a military station might send a coded message like:

83910 88920 89821 98829 89218 77362 66723 66723 66763 .....

The coded message might go on for a long time. Cutting extra elements from each number tremendously speeds up the effective transmission speed, without requiring the operator to send or copy code any faster. (You can send 99 as -. -. in less time than it takes to send 9 as ----., for example.) One big requirement of using cut numbers is that everyone know what is happening. If I'm working a military circuit sending five number groups and everyone knows and expects cut numbers I can speed up traffic flow. However, if I work the rare DX that I need and blindly send my address using cut numbers I shouldn't watch the mailbox expecting my QSL card. 5NN as 599 is a special exception. In some circles ALL signal reports are 599. (How many times have you heard the following in a contest or pile-up: "You're five nine - please repeat your call slowly with phonetics.") It is a widely accepted convention that cut numbers are used in 599 reports. Quite often you'll hear UR RST 599 5NN where the full info is given

once and the cuts are used for the repeat; that way hams not used to cuts can get the report and figure out the use of cuts in signal reports. I've never heard a signal report using cuts other than 5NN. I've never used cut numbers, other than 5NN, but it's a neat part of our Morse heritage, along with TNX, WX, UR, CQ, &c.  
73 Bryan W8LN

-----  
Date: Tue, 18 Aug 1998 08:48:34 -0500 (CDT)  
From: jdenison@morelr.com (JOEL DENISON)  
To: qrp-l@Lehigh.EDU  
Subject: [17792] Update W/R This a'way/That a'way ant  
Message-ID: <199808181348.IAA26020@ns1.morelr.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi gang:

Well, to tell the truth - this time - :-) The ant works great... I have a pipeline into Moscow and most places ne of maine... :-)

The other half of the ant works great into the states and longpath into europe... I like turning 180\* by just flicking a switch...

Twenty meters is so much quieter than forty meters... I am thinking of dropping forty altogether... I had forgotton how much fun twenty meters qrp can be...

The debate now is over taking the yagis down and putting up four elements of a quad... one pointing towards the states and the other pointed towards europe...

The problem is the effective height of the antenna would be abt 17ft lower... The plus is that the ant would have about ten to twelve bd's of umph... :-)

A four or five element yagi would probably work better, however I don't have the measurements for such an antenna... and the information I have now only confuses me... perhaps this is from being so far north of dixie land... :-)

will be in touch...

God Bless

joel, in maine, thinking of crawfish etouffe, but eating lobster stew...

WA5CVM

Joel Denison

PO BOX 542

3-element Wire/Rope yagi for 40mtrs & 20mtrs

Strong, Maine 04983

Gentle Lady R C sailplane

jdenison@morelr.com

-----



Date: Tue, 18 Aug 1998 10:12:54 -0400  
From: mikemo@ibm.net  
To: qrp <qrp-1@Lehigh.edu>  
Subject: [17793] Link Coupled Tuners  
Message-ID: <35D98BE6.7543@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Can anyone point me in the direction to find info on this type of tuner?  
Theory and schematics. Thanks!

72 de KU4QO Mike Maiorana, Palm Harbor, FL

-----  
Date: Tue, 18 Aug 1998 08:23:36 -0600 (MDT)  
From: af852@rgfn.epcc.edu (William R Colbert)  
To: qrp-1@Lehigh.EDU, w5xe@juno.com  
Subject: [17794] cut numbers  
Message-ID: <199808181423.IAA14885@rgfn.epcc.edu>

The n and t used in signal reports and power levels, etc come from one of the lists of cut numbers used by non-amateur cw nets, not only in the U.S. but many other countries as well. Non amateur is defined as government- civilian, government -military, illicit, maritime, and as I recall there are about 5 or 6 cut number systems but the most common is as follows:

1=A  
2=U  
3=V  
4=  
5=E  
6=  
7=B  
8=D  
9N  
0=T

--  
Ray Colbert, W5XE  
00TC 3618, SOWP 1064M

El Paso, Tx (FAR WEST TEXAS!)  
also: w5xe@juno.com

-----  
Date: Tue, 18 Aug 1998 12:40:10 +0100  
From: Leon Heller <leon@lfheller.demon.co.uk>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [17795] New ADI DDS chip  
Message-ID: <xDxYGJAagW21Ew7+@lfheller.demon.co.uk>  
MIME-Version: 1.0

ADI has data on a new DDS chip, the AD9851, on their web site.

It has a clock input of 175 MHz max., so should be good for up to about 60 MHz output. Unlike the AD9850 that some of us have been experimenting with, it has a 6X internal reference clock multiplier, so will only require a 55 MHz clock input for max. frequency operation. It comes in the same 28-pin SSOP package as the AD9850, and I will therefore be able to use my SMD adaptor with it, when they become available.

Leon

--  
Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>  
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424  
See <http://www.lfheller.demon.co.uk/dds.htm> for details of a simple AD9850 DDS system. See " /diy\_dsp.htm for a simple DIY DSP ADSP-2104 system.

-----  
Date: Tue, 18 Aug 1998 12:32:40 +0100  
From: Leon Heller <leon@lfheller.demon.co.uk>  
To: leon@lfheller.demon.co.uk  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [17796] Re: New QRP band in UK  
Message-ID: <KjBWOBAYZW21Ewfg@lfheller.demon.co.uk>  
MIME-Version: 1.0

In message <TTSQyhAXIW21Ew\$H@lfheller.demon.co.uk>, Leon Heller <leon@lfheller.demon.co.uk> writes  
>I've just renewed my licence, and I see that we have a new band in the  
>UK - 0.1357 to 0.1378 MHz with a max. power level of 0 dBW exp. A whole  
>band devoted to QRP. 8-)  
>  
>I can apparently transmit on this band with my Class B licence, unlike  
>the other HF bands. I knew that a new 135 kHz band was coming, but I

>thought that I wouldn't be able to use it with my licence, like the  
>experimental 73 kHz allocation that was recently removed.

Further to the above, I see from the RSGB web site that contrary to the  
info. in the licence booklet, I can't transmit on any frequency below 30  
MHz. 8-(

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>  
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424  
See <http://www.lfheller.demon.co.uk/dds.htm> for details of a simple AD9850  
DDS system. See " "/diy\_dsp.htm for a simple DIY DSP ADSP-2104 system.

-----  
Date: Tue, 18 Aug 1998 07:33:06 +0000  
From: Roger Hightower <n7kt@earthlink.net>  
To: turnerw@email.uah.edu  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [17797] Re: Cut Numbers  
Message-ID: <35D92E32.2FEF965D@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

You'll also hear cut numbers used during contests with serially numbered  
contacts. Those who have the CMOS II or III keyers can look at the  
instructions and see that cut numbers are one of the auto-sequence  
options.

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ

-----  
Date: Tue, 18 Aug 1998 09:43:33  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@Lehigh.EDU  
Subject: [17798] Ho-Humm, more DX  
Message-ID: <3.0.3.16.19980818094333.22d76a88@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Happened to hear a lull in 9K2HN's pile up (Kuwait City) and got him on the  
first call! (20 Meter phone, about 00:30Z, 10 W pep to G5RV) Never thought  
I'd get a Middle East station, considering the pile ups they generate! If

I'm starting to do this good, can't wait to finish up the RF speech processor I've started on.

On DX packet clusters, I've got mixed feelings on that technological advancement. On one hand, it sounds like a great tool to know where DX stations are coming in, but on the other hand, they can generate large pile ups in no time.

Personally, I'd rather keep spinning the dial in the hope of finding a DX station just starting to make his call. With luck, I'd be one of the first to answer, before he gets on the DX packet and the "Big Guns" descend and make it impossible to get through.

72 and happy DXing,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

-----  
Date: Tue, 18 Aug 1998 14:57:19 -0700  
From: "Harvey D. D. Hetland" <n6mm@earthlink.net>  
To: QRP-L@Lehigh.EDU  
Subject: [17799] Re: Ho-Humm, more DX  
Message-ID: <35D9F8BF.F2C@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The good DXer will find much of his DX without using a packetcluster, and for the true "beady-eyed QRPer" it is easier to catch the DX if it is before the packetcluster announcement, which attracts numbers and overly aggressive operators. Those into DX have seen many a pileup degenerate once it is announced on packet. One KP2 that was active during the last northern hemisphere winter would pull a trick from the 1950s and 1960s when the packet announcement was made. He would change his frequency several kHz and start over. He was also very up-front about QSLing ... He didn't. A bit of a strange character, hi.

Like Steve, KD1JV, I would rather find the DX on my own. There is a sense of satisfaction doing it on your own.

73, Harvey, N6MM.

-----

Date: Tue, 18 Aug 1998 21:04:04 -0600  
From: Vince Kumagai <sonofullr@idcomm.com>  
To: qrp-l@Lehigh.EDU  
Subject: [17800] Pixie 2 circuit description  
Message-ID: <35DA40A3.D07@idcomm.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I just completed assembly of my Pixie 2 actually a Tixie. I have run into a problem where it will begin to self-oscillate under very strong signals. It's been a long time since I studied oscillator theory. I am looking for a circuit description on the Pixie to help me out. I have the schematic but need something to help breakdown the stages so I can test each one. Any help welcome and appreciated.

73

--

Vince Kumagai  
KB0YTK - Denver, Co  
CQC #432 - QRPL #1283

-----  
Date: Tue, 18 Aug 1998 10:25:22 -0500  
From: Tim Ahrens <tahrens@inetport.com>  
To: jwodell@ameritech.net, qrp-l@Lehigh.EDU  
Subject: [17801] Re: ten tec rx  
Message-ID: <35D99CE2.CCB603D5@inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Jerry - I reviewed the box for the guys at ten-tec. It's a nice receiver, and it does well for the price. The software was easy to install, and works pretty good too! Most of the functions were working on my unit (it was a kinda 'beta' box), and I didn't have any complaints about it at all. If you open up the box, you'll be surprised/disappointed as to how much stuff isn't in the box!!!:-) It didn't do too well with the little telescopic antenna... but was great with an outside antenna.

My wishes: FM broadcast, public service stuff, etc, etc.  
(the icom does this, but I've read some real horror stories on the icom reflector about that radio).

If you are looking for a HF receiver (which does very well on SSB and CW both), then I'd recommend the ten-tec box.

Thanks,

Tim W5FN

-----  
Date: Tue, 18 Aug 1998 15:23:26 -0500  
From: "KA5T Larry Wise" <lewise@inetport.com>  
To: "qrp" <qrp-1@Lehigh.EDU>  
Subject: [17802] Z match tuner  
Message-ID: <199808181522.KAA24338@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

The current issue of QRP Quarterly (QRPQ) (July 1998) contains an article by Pete Hoover, W6ZH, on his ZM-40, a small Z match. He refers to an article by W6JJZ in the ARRL Antenna Compendium, Vol 5.

If you run the bibliography in that article you will wind up at an article by King in the May 1995 QST which seems to have started the Z match. Although the King article does not give much in the way of theory, it does seem to be the beginning. The objective as stated by King was to design a coupler for 50 ohms to 10-2500 ohms, reactive or not, which did not require coil changing. He was designing for a 500 watt rig.

W6JJZ provides a look at the theory in his articles....

The 1957,1958(and possibly others) ARRL Handbooks have articles on the Z match. There are the W6JJZ articles in the ARRL Antenna compendium, vol 3 and 5 and some other pubs which I do not have.

These are worth reading if you really want to know where it came from and what it is and some of the variations.

But, he said, 'What is it?'

Well the idea seems to have originated with King to solve the problem of multi band tuners, which can be a switching(or alligator clip) nightmare.

The purpose, to produce a tuner without band switching or coil changing.

Picture an L network with a variable capacitor coming from the rig RF out port, to the top of an inductor connected to ground. Connect the antenna to the junction of the L and C. Ordinary L network, but with the C and L positions reversed from those normally used in an antenna tuner.

Now, change the Inductance to a parallel tuned circuit, and move the antenna to a link on the coil in the parallel tuned circuit. Arrange the tuned circuit to tune between about 3.5 mcs and about 10 mcs.

Now add a second tuned circuit in parallel with the first and make it a series tuned circuit tuning from about 10 mcs to about 30 mcs, with the coil at the non-ground end. Put a link on the coil for the higher band antenna connection.

Gang the tuning caps for the tuned circuits on the same shaft.

The inductance for the network is formed by tuning the tuned circuits off to the L side of resonance.

Tunable C, tunable L.

The special characteristic of the Z match circuit is that the tuned circuit has two tuning caps arranged so that two frequencies are tuned at once. One section tunes 3.5 to about 10 mcs, and the other section tunes about 10 to 30 mcs.

Viola! No switching and no coil switching! Tuning from 3.5 through 29.7 mcs.

The original circuit had two coils and indicated. Later variations use tapped coils.

The original circuit was designed for 80 thru 10 and had two links for the antennas. One for the lower bands, 3.5 and 7, and the other for the higher bands, 14 through 28....

So thats just a thumbnail sketch.....where it came from and what it is and why it came into being.....

And I just learned this all yesterday looking for the same answer....

Did I say I love Bibliographies ???

Larry KA5T  
Georgetown, Texas EM10DQ

-----  
Date: Tue, 18 Aug 1998 11:26:06 -0400  
From: Sam Billingsley <SBillingsley@usaninc.com>  
To: "Qrpl\_Submit (E-mail)" <qrp-l@Lehigh.edu>, "klqrp\_submit (E-mail)"  
<klqrp@waterw.com>, "GQRP-list (E-mail)" <qrp-l@blacksheep.org>  
Subject: [17803] PIXIE MODs?  
Message-ID: <21E06269B00ED111BE9B00805F6D0FA33400B6@MAILSERVER1>  
MIME-Version: 1.0  
Content-Type: text/plain

I am MODing the PIXIE 2 to try to get as much out of it as possible. I am working on two problems.

BC Breakthrough: I have eliminated it with a tuned LC toroid circuit tapped up from the grounded end (about 25%) to join the output of the LP filter. There is a 5 turn link on the grounded end of LC circuit that connects to the antenna and ground. (This basically looks like a tiny antenna coupler). I was thinking about replacing the LP filter with this same tuned circuit and link arrangement. I think I have seen this tuned output circuit configuration in one of the old SPRATS. I can see I still may need the LP filter to reduce the harmonics but was thinking that the tuned circuit directly at the collector of the PA Q2 might help the selectivity. Has anyone tried this?

Sensitivity: I can hear CW signals but the volume is fairly low. Has anyone played with the bias resistors to the PA Q2 to see if the RX mixer action could be improved without affecting the power output during TX. It looks like the bias resistors are effectively out of the picture during TX. I wanted to try this before adding any AF Filter/preamp. I see a fairly BIG OSC signal at the BASE of Q2 and was wondering if it could be OVERDRIVING the DIODE detector action during RX?

Trying to increase my QRP knowledge. Any comments would be appreciated.

Sam AE4GX      Atlanta, GA      QRP-L 1033      ARCI 9356      GQRP      9660

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Date: Tue, 18 Aug 1998 11:20:00 -0400  
From: Serge Bertuzzo <103226.3635@compuserve.com>  
To: QRP-L <qrp-l@Lehigh.edu>  
Subject: [17804] Help - Contest software  
Message-ID: <199808181122\_MC2-5669-3F5D@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

Hello everyone!

Does anyone know of a simple contest software that can be used for the upcoming ARCI fall QSO party. I know that TR allows you to configure the software but I wonder if someone has developed a simpler program specifically targetted for some of the more popular QRP type contests?Thanks..

72's

Serge - VA3SB

-----  
Date: Tue, 18 Aug 1998 08:46:49 PDT  
From: "DJ Rock" <b2bn@hotmail.com>  
To: qrp-l@Lehigh.edu  
Subject: [17805] Re: Object Bounce CW  
Message-ID: <19980818154649.26014.qmail@hotmail.com>  
Content-Type: text/plain

Ive heard of this:

In fact I remember looking in some old book about propagation paths and I saw that signals could be bounced off of objects like water towers , and even airplanes. The height of the latter seems the most interesting. A large aircraft above 20000 feet or so could offer up hundreds of miles of vhf DX. One question, would painting a craft with RF for this purpose create a dangerous interference situation?

KF4ZKN , the rigless ham

\*\*\*\*\*

>I'm just curious to see if anyone has performed 6m or 2m "object bounce"

>CW at QRP power levels or not. Object bounce is the term I coined to describe the reflection and/or scattering of RF energy against something

>like a mountain range or city building to enhance VHF range.

>  
>The idea came to me as a generalization of the moon-bounce method. One  
of  
>the things I wanted to try, for a long time, was moon bounce. Then I  
got  
de, CA |.....  
>  
>  
>

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Get Your Private, Free Email at <http://www.hotmail.com>

---

Date: Tue, 18 Aug 1998 10:37:21  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: leon@lfheller.demon.co.uk  
Cc: qrp-1@Lehigh.edu  
Subject: [17806] Re: New ADI DDS chip  
Message-ID: <3.0.3.16.19980818103721.2c7f228e@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>ADI has data on a new DDS chip, the AD9851, on their web site.  
>It has a clock input of 175 MHz max., so should be good for up to about  
>60 MHz output.

Actually, it's good to 70 Mhz, 40% of clock.

However, did you see the price? Only \$16.61 in 10,000 quantities, so it will  
be \$60-70 in singles. High performance = big bucks!

I think I'll wait for the 300 Mhz, wid 12 bit DAC they are reputed to be  
working on...

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

---

Date: Tue, 18 Aug 1998 13:14:36 -0400 (EDT)  
From: Bob Patten <n4bp@bc.seflin.org>

To: Serge Bertuzzo <103226.3635@compuserve.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [17807] Re: Help - Contest software  
Message-ID: <Pine.3.89.9808181323.D24882-0100000@bc.seflin.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 18 Aug 1998, Serge Bertuzzo wrote:

>  
> Does anyone know of a simple contest software that can be used for the  
> upcoming ARCI fall QSO party. I know that TR allows you to configure the  
> software but I wonder if someone has developed a simpler program  
> specifically targetted for some of the more popular QRP type  
> contests?Thanks..

>  
NA supports it perfectly. Have been using it for quite some time. It is  
also configurable for other QRP contests by allowing you to build  
"templates".

73,

Bob Patten, N4BP ( 0 0 ) Plantation, FL

-----o00o-( )-o00-----

E-Mail: n4bp@bc.seflin.org  
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>  
Brass Pounder BBS: (954) 472-7715

-----  
Date: Tue, 18 Aug 1998 15:46:28 +0100  
From: Leon Heller <leon@lfheller.demon.co.uk>  
To: mikemo@ibm.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.edu>  
Subject: [17808] Re: Link Coupled Tuners  
Message-ID: <ds2j9EAEPZ21EwsI@lfheller.demon.co.uk>  
MIME-Version: 1.0

In message <35D98BE6.7543@ibm.net>, mikemo@ibm.net writes  
>Can anyone point me in the direction to find info on this type of tuner?  
>Theory and schematics. Thanks!

The ARRL Antenna Handbook has details of a 3.5-30 MHz link-coupled  
transmatch.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>  
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424  
See <http://www.lfheller.demon.co.uk/dds.htm> for details of a simple AD9850  
DDS system. See " "/diy\_dsp.htm for a simple DIY DSP ADSP-2104 system.

-----  
Date: Tue, 18 Aug 1998 10:22:10 -0700  
From: W7LS <w7ls@blarg.net>  
To: n3kfl@penn.com  
Cc: qrp-1@Lehigh.edu  
Subject: [17809] Re: Looking for W6EMT  
Message-ID: <35D9B842.4DE4@blarg.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Al and the group:

Roy Gregson is in the hospital. He has had a relapse of some form of cancer. His son Scott e-mailed me that he is back in the hospital. On the bright side, Scott reports that Roy is feeling better. Roy has had to take some chemo-therapy, which can and usually does make one feel bad.

If I hear more info, I will post it. In the meantime, it wouldn't hurt to 'say an extra one' for Roy. I assume that he will announce when he is back on line on qrp-1.

If folks have questions about building or operating his Emtech rigs, how about just posting them here? There are many fine people ready and willing to answer questions.

73 de Jim, W7LS

Al Moyle wrote:

>  
> Does anyone know if Roy Gregson, W6EMT, of EMTECH is on vacation? I've  
> been trying to reach him by email and haven't been able to get through.  
>  
> 72,  
> Al N3KFL

-----  
Date: Tue, 18 Aug 1998 10:24:35 -0700 (PDT)  
From: KC5TJA <kc5tja@topaz.axisinternet.com>  
To: mikemo@ibm.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [17810] Re: Link Coupled Tuners  
Message-ID: <Pine.LNX.3.96.980818102325.29498H-100000@topaz.axisinternet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Can anyone point me in the direction to find info on this type of tuner?  
> Theory and schematics. Thanks!  
>  
> 72 de KU4QO Mike Maiorana, Palm Harbor, FL

Do you receive QRP Quarterly issues? There was a 2-part article (HUGE article at that) on this very topic in the last two issues.

```
=====
      KC5TJA/6      |                               -| TEAM DOLPHIN |-
      DM13          |                               Samuel A. Falvo II
      QRP-L #1447   |                               http://www.dolphin.openprojects.net
      Oceanside, CA |.....
```

-----  
Date: Tue, 18 Aug 1998 10:44:43 -0700  
From: Allan Taylor K7GT <k7gt@qsl.net>  
To: qrp-l@Lehigh.EDU  
Subject: [17811] alternate crystals for SST/40  
Message-ID: <35D9BD8B.7015@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have just purchased a SST/40m rig (from WA2HOQ). It is, of course, centered around 7040. Has anyone successfully arranged a crystal switching arrangement or socket to allow other center frequencies. I am interested in occasionally trying 7020-7030 when out in the sticks. (That's where the JAs are in the morning). Also, what is the best source for such custom crystals.

--  
73 de K7GT  
Allan Taylor (a.k.a. Grant)                      Pleasanton CA  
email:            k7gt@qsl.net  
web page:        http://www.qsl.net.k7gt/index.html

Date: Tue, 18 Aug 1998 10:45:57 -0700  
From: Allan Taylor K7GT <k7gt@qsl.net>  
To: qrp-l@Lehigh.edu  
Subject: [17812] SuperSensitive headphones for backpacking portable  
Message-ID: <35D9BDD5.1AAF@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

At the risk of stirring up a controversial issue (choice of headphones is almost as personal as choice of bedpartner), I would like to solicit suggestions as to a superbly sensitive headphone that is nearly indestructible and very light. I use stereo headphones as a matter of course, so I don't need the lecture on using mono Telex headphones. The high freq hiss just doesn't bother grampa anymore! My home station headphones are Sony Studio Monitor s and are SUPERB, but they are a bit bulky and pricey as well. What say? Does someone have a favorite for field use. If no suggestions, I will just use random Sony walkman (TM) headphones and a headband over them to keep them fitting tightly to keep out wind noise.

BTW: the third try for a QRP/backpack trip is now scheduled for Sept 18,19 near the Tuolumne canyone in Yosemite Natl park. Any non-smoking non-drinking grampas are invited to join our adventure! Only one operator so far (me) as the other guy just likes to get away from the home front.

--

73 de K7GT  
Allan Taylor (a.k.a. Grant) Pleasanton CA  
email: k7gt@qsl.net  
web page: <http://www.qsl.net.k7gt/index.html>

-----

Date: Tue, 18 Aug 1998 12:00:29 -0600  
From: Tim Pettibone <tpettibo@NMSU.Edu>  
To: n3kfl@penn.com  
Cc: qrp-l@Lehigh.edu  
Subject: [17813] Re: Looking for W6EMT  
Message-ID: <3.0.2.32.19980818120029.0068ba30@cnmailsvr.nmsu.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Al:

Had the same problem. Got a note back from Roy's son. Apparently Roy is in the hospital. Don't know the details.

Tim K5OI  
Las Cruces, NM

>Does anyone know if Roy Gregson, W6EMT, of EMTECH is on vacation? I've  
>been trying to reach him by email and haven't been able to get through.  
>  
>72,  
>Al N3KFL

-----  
Date: Tue, 18 Aug 1998 13:54:39 EDT  
From: ARDUJENSKI@aol.com  
To: qrp-1@Lehigh.EDU, nwq-1@scn.org  
Subject: [17814] The PERFECT GROUND?  
Message-ID: <e631b43a.35d9bfe1@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Has anyone come across an article about the merits of drilling down say 33 ft and inserting a copper pipe to act as the ground side for a vertical, especially for areas where you have limited real estate? This would be for a 33 ft radiating vertical antenna of course. The purpose of the ground is to give you a good match reflection of the top radiator. It seems that inserting a matching length of copper pipe below ground you would get the match you seek. You could even have part of the pipe above ground to act as a support for the upper vertical element

Alan KB7MBI

-----  
Date: Tue, 18 Aug 1998 14:01:09 -0400  
From: Al Moyle <n3kfl@penn.com>  
To: w7ls@blarg.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [17815] Re: Looking for W6EMT  
Message-ID: <3.0.32.19980818140107.00902910@pop.penn.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Jim,

Shortly after I sent my message to the list this morning, I got a phone call from Scott Gregson (an amazing coincidence). I wanted to get in touch with Roy to check on an order I had placed a few weeks back. Anyway, Scott had found the order and told me that my ZM-2 kit will go out today.

I'm glad to hear that Roy is feeling better ... I know that chemotherapy can be really hard on a person.

Anyway, thanks to everybody who took the time to reply to my email.

73,  
Al N3KFL

-----  
Date: Tue, 18 Aug 1998 13:55:37 -0400  
From: "Bob Kellogg" <ae4ic@nr.infi.net>  
To: <walter@inlink.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [17816] Re: 1 dB loss/gain expressed as a percentage  
Message-ID: <199808181805.0AA01148@mailhost.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Walter,  
-----

> An old timer (20+ yrs ago) told me to count each coax connector  
> as 1 db of loss as well as each switch that is in the antenna circuit.

When I first started testing tuners, I noticed some "unexplainable" test variations. Then I determined that I had used different patch cords and occasionally inserted an adapter in the line. Finally had to settle on \*\*\*exactly\*\*\* the same set up on the test bench to be sure the measurements were accurate. (and retest everything up to that point)

I did make a few tests on adapters (not enough to be called a study) and found that 1/2 dB loss or more was typical of the new ones I had on hand. I think your old timer was not far off.

CUL,  
Bob Kellogg, AE4IC, Greensboro, NC  
Prolably, but not nececelery. -- Benny Hill



-----  
Date: Tue, 18 Aug 1998 11:11:50 -0700  
From: W7LS <w7ls@blarg.net>  
To: k7gt@qsl.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [17817] Re: SuperSensitive headphones for backpacking portable  
Message-ID: <35D9C3E6.453D@blarg.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Allan, et al:

I did a search of the local discount drugstore and found the most sensitive headcans are the Sony sumarium cobalt jobs. Look on the back of the package for the specs. You should see 102 dB/mW for the good ones. Do not get the 96 dB/mW ones. There is a huge difference. Aiwa has earbuds with the good specs for \$7.99. Sony headphones (yellow) are \$9.99

The dB/mW spec says just that; you get so many dB (sound pressure level) for each milliwatt of electrical drive.

GL/73 de Jim, W7LS

Allan Taylor K7GT wrote:

>  
> At the risk of stirring up a controversial issue (choice of headphones  
> is almost as personal as choice of bedpartner), I would like to solicit  
> suggestions as to a superbly sensitive headphone that is nearly  
> indestructible and very light. I use stereo headphones as a matter of  
> course, so I don't need the lecture on using mono Telex headphones.  
> The high freq hiss just doesn't bother grampa anymore! My home  
> station headphones are Sony Studio Monitor s and are SUPERB, but they  
> are a bit bulky and pricey as well. What say? Does someone have a  
> favorite for field use. If no suggestions, I will just use random  
> Sony walkman (TM) headphones and a headband over them to keep them  
> fitting tightly to keep out wind noise.  
>  
> BTW: the third try for a QRP/backpack trip is now scheduled for Sept  
> 18,19 near the Tuolumne canyone in Yosemite Natl park. Any non-smoking  
> non-drinking grampas are invited to join our adventure! Only one  
> operator so far (me) as the other guy just likes to get away from the  
> home front.  
>  
> --  
> 73 de K7GT  
> Allan Taylor (a.k.a. Grant)                      Pleasanton CA

> email: k7gt@qsl.net  
> web page: <http://www.qsl.net.k7gt/index.html>

-----  
Date: Tue, 18 Aug 1998 13:34:43 -0500  
From: Tim Ahrens <tahrens@inetport.com>  
To: kd1jv@moose.ncia.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [17818] Re: New ADI DDS chip  
Message-ID: <35D9C943.792B907E@inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just got a price from my distributor (Pioneer) here in Austin.. The AD9851XRS is \$23.45 (1pc)

cuall

Tim W5FN Texas

-----  
Date: Tue, 18 Aug 1998 10:34:54 -0600  
From: tom whalen <whalen@swcp.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [17819] NF3I....where are you Scott?  
Message-ID: <35D9AD2E.656C@swcp.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Anyone heard from Scott NF3I lately? I looked for him at Flagstaff to no avail. He always is posting on here but has been a real stranger lately. Give me a post when you can Scott and let me know about your Flagstaff adventure. 72, Tom WB5QYT/Albuquerque

-----  
Date: Tue, 18 Aug 1998 14:42:06 EDT  
From: RangerSF5@aol.com  
To: qrp-1@Lehigh.EDU  
Subject: [17820] LQQKing for ED Crowell

Message-ID: <7a3669fe.35d9caff@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Hi Gang

I need to locate Ed Crowell and lost his \*E\* mail  
All I remember is that he was from MO and the address had \*connectr\*  
I'm sure he reads the list and he'll respond but maybe some of you out there  
know him.

If so, Please send me his address.

Thanks in advance

Bob

PART 2

To everyone who is expecting a package or copies from me on various items,  
Everything went in the mail today 1st class.

The others that \*E\* mailed and told me that they were unable to open up the  
\*TIF\* files, KF4TRD put it on the elmer site.

If anyone has the URL, please post it for the guy's.

As far as the antenna goes, Has anyone tried or built it?

It would be nice if some of you engineer, super smart type would look at this  
antenna and explain why it works so well for a 17 foot coil loaded dipole.

Thanks to all who sent me the nice letters.

More later on qsk.

Bob

WA2HOQ

-----  
Date: Tue, 18 Aug 1998 20:39:29 +0200  
From: "Peter\_dl2fi" <Peter\_DL2FI@CSI.com>  
To: "'Internet Liste via PoP3'" <qrp-1@Lehigh.edu>  
Subject: [17821] AW: alternate crystals for SST/40  
Message-ID: <000001bdcada\$a9068520\$42bcfea9@ZenkerPN.perkin-elmer.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 8bit

I paralleled a second xtal (also from Wilderness, same frequency. Tuning  
range is now 7023 to 7038. With an other L I had 7018 to 7034

Its something to experiment with.

72 de Peter

-----Urspr ngliche Nachricht-----

Von: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] Im Auftrag  
von Allan Taylor K7GT

Gesendet am: Dienstag, 18. August 1998 19:45  
An: Low Power Amateur Radio Discussion  
Betreff: alternate crystals for SST/40

I have just purchased a SST/40m rig (from WA2HOQ). It is, of course, centered around 7040. Has anyone successfully arranged a crystal switching arrangement or socket to allow other center frequencies. I am interested in occasionally trying 7020-7030 when out in the sticks. (That's where the JAs are in the morning). Also, what is the best source of such custom crystals.

--

73 de K7GT  
Allan Taylor (a.k.a. Grant)                      Pleasanton CA  
email:            k7gt@qsl.net  
web page:        <http://www.qsl.net.k7gt/index.html>

-----  
Date: Tue, 18 Aug 1998 15:06:38 -0400  
From: Art Marshall <artm@t-com.com>  
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.edu>  
Subject: [17822] Tuthill  
Message-ID: <01BDCAB9.CEAF5700@PC-ART.t-com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hey.....

has anyone put up any pics of Ft Tuthill hamfest yet. I havnt been there in 8 years and sure miss seeing the place after going for some 10 straight years.

tk's 73 Art W1FJI now in Florida

-----  
Date: Tue, 18 Aug 1998 11:21:25 -0600  
From: tom whalen <whalen@swcp.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.edu>

Subject: [17823] ICQ-QRP  
Message-ID: <35D9B815.57CE@swcp.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello QRPer's!

Someone posted a list of the ICQ users that are also QRPer's. Would like to see it again if you dont mind. I now have Jim AL7FS in my ICQ address file. Can't work em on hf, so work em on ICQ!! 72, Tom  
WB5QYT/Albuquerque

-----  
Date: Tue, 18 Aug 1998 14:29:04 -0500  
From: "George T. Baker" <w5yr@swbell.net>  
To: kc5tja@topaz.axisinternet.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.edu>  
Subject: [17824] Re: Link Coupled Tuners  
Message-ID: <35D9D600.E883773E@swbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

To Mike and others,

Definitive words on tuners in general and link-coupled jobs specifically can be found on LB Cebik's web page.

Look at

<http://web.utk.edu/~cebik/radio.html>

That is not a misprint: it is not <sup>^^^</sup>www, it is <sup>^^^</sup>web at the front.

LB has written mightily about tuners and has some of the best analysis that you will find. He is active on this list and seems very willing to answer questions, etc. An outstanding resource for us all.

72/73, George           didit dit  
Amateur Radio W5YR, 52 years and counting! 33.2 N 96.6 W EM13RE  
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403 ICQ #16819496  
AutoPOWER Systems, Fairview, TX (30 Mi. NE of Dallas) 10-X #11771

> > Can anyone point me in the direction to find info on this type of tuner?  
> > Theory and schematics. Thanks!

> >

> > 72 de KU4QO Mike Maiorana, Palm Harbor, FL

-----  
Date: Tue, 18 Aug 1998 12:38:08 -0700 (PDT)  
From: David Feldman <dgif@netcom.com>  
To: qrp-1@Lehigh.edu  
Subject: [17825] Very low supply voltage PA circuits  
Message-ID: <199808181938.MAA15834@netcom5.netcom.com>

Anyone doing any work on QRP final amp stages that run off very low supply voltages - 3-6 volts ??

Anyone know of designs for same?

73 Dave WB0GAZ dgif@netcom.com

-----  
Date: Tue, 18 Aug 1998 12:53:37 -0700 (PDT)  
From: KC5TJA <kc5tja@topaz.axisinternet.com>  
To: David Feldman <dgif@netcom.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [17826] Re: Very low supply voltage PA circuits  
Message-ID: <Pine.LNX.3.96.980818123317.1829B-100000@topaz.axisinternet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 18 Aug 1998, David Feldman wrote:

> Anyone doing any work on QRP final amp stages that run off very  
> low supply voltages - 3-6 volts ??  
>  
> Anyone know of designs for same?

Please excuse my ignorance in this issue. I've never been very lucky with designing even simple AF amplifiers, much less RF PAs. ;) But allow me to express an idea or two.

Let's assume a 50-ohm load. If my memory serves me correctly,  $P_o = E^2/4Z$ . Thus, to maintain any given power to a load, you MUST maintain a certain voltage on that load. Let's say we want to maintain 5W on a 50 ohm load. We need a voltage, then, of  $\sqrt{4 \times 50 \times 5}$ , or 31.6V RMS. Current draw should be roughly 0.632A.

Obviously, a battery of 3V won't be able to pull this off. However, if it had sufficient current handling capability, one COULD build a switching power-supply which converted the 3VDC to approximately 30VDC for use in the power amplifier. The primary winding would have 10 turns (for instance) of fairly thick wire, and the secondary would contain 100 turns. This will give it a 10:1 turns ratio. Since about 3V AC is being applied to the primary, roughly 30V will be at the secondary. We won't get a perfect 5W output, but it should be close enough.

However, currents are an issue here. 0.632A is being drawn from the secondary. Because of the turns ratio, approximately \*6.32A\* will be drawn on the primary. Now you know why I specified THICK wire for the primary. ;) Personally, I don't know of any 6.3A 3V batteries around, except perhaps lantern batteries. Most of those, however, are of the 6V variety.

Oscillator frequency used for the DC-to-DC converter usually ranges from 400Hz to as high as 80kHz.

You can vary this technique a bit. In the SW-40+ that I own, a PA is fed with only 12V, but somehow produces 20V onto a 50ohm load. It does this with the use of tuned circuits. So, if you're designing a CW amplifier, you could use a class C, D, or E amplifier and a tank to effectively halve your supply voltage requirements to approximately 15V. Evidence of this is my 2m HT: it delivers a max of 5W when supplied with 16VDC. However, you'll still need a DC-to-DC converter to give the desired voltage step-up to 16V.

Another technique you can use (at least, I \*think\* you can use) is to combine the VFO and power supply into the same circuit. That is, generate your VFO signal at small signal levels at the desired RF frequency. However, you feed this RF into a class B amplifier, with a transformer which steps the voltage up to the desired voltage for driving a 50 ohm load. Yes, current draw becomes a major issue here, so you'll need two or more RF-capable transistors that can handle the >1A requirement. This could get expensive accordingly, but it'll also cut down on the number of components. With multiple windings on that single transformer, you can also derive power for other parts in the circuit.

I remember seeing this technique in an old 1970s genera book on RF communications.

```
=====
KC5TJA/6      |                               -| TEAM DOLPHIN |-
DM13          |                               Samuel A. Falvo II
QRP-L #1447   |                               http://www.dolphin.openprojects.net
Oceanside, CA |.....
```

-----  
Date: Tue, 18 Aug 1998 16:13:45 -0400  
From: Joseph Trombino jr <joebarb@wilmington.net>  
To: QRP-L@Lehigh.EDU  
Subject: [17827] Looking for W6EMT  
Message-ID: <3.0.1.32.19980818161345.00690a58@wilmington.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Fellow QRP'ers: I was saddened to hear of W6EMT's (Roy Gregson) illness. Does anyone have information regarding the address of the hospital in which Roy is staying? Perhaps some QSL cards with notes of encouragement from fellow QRP'ers would be appropriate and help in boosting Roy's morale during his treatment/recuperation. Just a thought.

Regards, Joe W2KJ

-----  
Date: Tue, 18 Aug 1998 16:13:41 EDT  
From: ARDUJENSKI@aol.com  
To: qrp-l@Lehigh.EDU, nwq-l@scn.org  
Subject: [17828] NEAT SLV BASE SUPPORT  
Message-ID: <40a02d97.35d9e076@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Was in the hardware store (HOME DEPOT) and found a great system for elevating the SLV. They have these extension rods for paint rollers from 4-14ft depending on the height you want to elevate. You can even use a wood broom handle which gives a nice height too

There is a small plastic adapter that converts the ACME THREAD the type that is in the base of paint rollers into a squeegee or yoke type fitting (tapered piece). You slip the tapered end into the base of the fishing rod and screw the extension pole into it. The taper is slack so I wrapped several layers of electrical tape onto the taper to ensure a snug fit.

The extension rod can be supported by a variety of methods but a simple short guy arrangement works great.



Just thought Id share this with you (FWIW)...Alan KB7MBI

-----  
Date: Tue, 18 Aug 1998 12:21:03 -0600  
From: Kory Hamzeh <kory@avatar.com>  
To: ARDUJENSKI@aol.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.edu>  
Subject: [17829] Re: NEAT SLV BASE SUPPORT  
Message-ID: <3.0.5.32.19980818122103.00958100@ns1.avatar.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 04:13 PM 8/18/98 EDT, ARDUJENSKI@aol.com wrote:  
>Was in the hardware store (HOME DEPOT) and found a great system for elevating  
>the SLV. They have these extension rods for paint rollers from 4-14ft  
>depending on the height you want to elevate. You can even use a wood broom  
>handle which gives a nice height too  
>  
>There is a small plastic adapter that converts the ACME THREAD the type that  
>is in the base of paint rollers into a squeegee or yoke type fitting (tapered  
>piece). You slip the tapered end into the base of the fishing rod and screw  
>the extension pole into it. The taper is slack so I wrapped several layers of  
>electrical tape onto the taper to ensure a snug fit.  
>  
>The extension rod can be supported by a variety of methods but a simple short  
>guy arrangement works great.  
>  
>Just thought Id share this with you (FWIW)...Alan KB7MBI  
>

I use of the tripods that comes with a halagon lamps at home depot. It  
folds up real small so it is easy to transport. And so far, I haven't  
needed to guy it at all.

Kory

-----  
Date: Tue, 18 Aug 1998 15:06:55 -0600  
From: Dick Schneider <rschneid@ix.netcom.com>  
To: rgobrick@worldnet.att.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [17830] Re: Pacificon vs FDIQ QRP Symposium  
Message-ID: <35D9ECEF.ACA535A5@ix.netcom.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I'd like to give a kudos to Bob Gobrick's comments on his Pacificon vs FDIQ QRP Symposium. I haven't been able to get to either as yet, and already there's mudslinging. I never did respond well to the guys who have to slam the competition in their ads, and comments like Doug's certainly do have an "us vs them" feel.

Tell me what's good about your symposium, not what's so bad about the other guys.

72 Dick AB0CD..

-----  
Date: Tue, 18 Aug 1998 14:27:50 -0700  
From: Allan Taylor K7GT <k7gt@qsl.net>  
To: qrp-l@Lehigh.EDU  
Subject: [17831] SuperSensitive headphones for backpacking  
Message-ID: <35D9F1D6.A9E@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

With some leads from the gang and a visit to a local shop, I at least have model numbers for some very lightweight headphones that have sensitivity equal to or better than my home station set. Unfortunately I will have to search out some other store as their stock is very low currently. The type that looks best is called Vertical In-the-ear Headphones, the high end model costing ~\$25 and having 108 dB/mw sensitivity. Weight is 0.9 oz and folds up, too. Sony model MDR-A44L.

Now to get a pair!

--

73 de K7GT  
Allan Taylor (a.k.a. Grant) Pleasanton CA  
email: k7gt@qsl.net  
web page: <http://www.qsl.net/k7gt/index.html>

-----  
Date: Tue, 18 Aug 1998 14:29:38 -0700

From: Allan Taylor K7GT <k7gt@qsl.net>  
To: qrp-1@Lehigh.EDU  
Subject: [17832] SST/40 bandwidth issues  
Message-ID: <35D9F242.784D@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have received several suggestions on how to get extra band segments and/or get a wider bandwidth for the SST/40m. I am going to try the multiple diode approach with a switch.

Thanks again, gang, for the discussion!

--

73 de K7GT  
Allan Taylor (a.k.a. Grant)                      Pleasanton CA  
email:            k7gt@qsl.net  
web page:        <http://www.qsl.net/k7gt/index.html>

-----  
Date: Tue, 18 Aug 1998 18:09:42 EDT  
From: we6w@juno.com (Ed Loranger)  
To: SBillingsley@usaninc.com  
Cc: qrp-1@Lehigh.edu  
Subject: [17833] Re: PIXIE MODs?  
Message-ID: <19980818.150003.2215.0.we6w@juno.com>

Sam/AE4GX asks how to make audio louder with the pixie2.

Add 220 uF electrolytic capacitor at the V+ pin of the LM386.

For more information check out the Spring '98 QRPP issue.

-Ed

72, Ed WE6W QRP/CW only (VP-0). <http://www.qsl.net/we6w>  
Enjoying Ham Radio every day! Santa Rosa, CA. (CM88ok)

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Date: Tue, 18 Aug 1998 18:50:40 -0400

From: n7ri@juno.com (Ralph L Irons)  
To: qrp-l@Lehigh.EDU  
Subject: [17834] FS: Ten-Tec 2m to 6m Transverter  
Message-ID: <19980818.185041.10030.0.N7RI@juno.com>

FOR SALE:

Ten-Tec 1209-A 2m to 6m transverter ( 8 W out for 2 W in); all modes;  
RF-sensed TR switching; still in the box, factory assembled, never used.  
Price: \$100 (includes UPS shipping in continental US)

I ordered this unit as a safety net in case of problems with the kit  
version,  
which I built for Field Day. Luckily, I didn't need it.

Please reply direct to n7ri@juno.com.

72, Ralph N7RI  
Charlottesville VA

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Or call Juno at (800) 654-JUNO [654-5866]

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End of QRP-L Digest 1187

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